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ZENOAH®

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OWNER'S MANUAL

BRUSHCUTTERS

BC4350DW

Original Language

⚠ WARNING ⚠

- **Before using our products, please read this manual carefully to understand the proper use of your unit.**
- **Keep this manual handy.**

⚠ SAFETY FIRST

Instructions contained in warnings within this manual marked with a ⚠ symbol concern critical points which must be taken into consideration to prevent possible serious bodily injury, and for this reason you are requested to read all such instructions carefully and follow them without fail.

■ NOTES ON TYPES OF WARNINGS IN THE MANUAL

⚠ WARNING

This mark indicates instructions which must be followed in order to prevent accidents which could lead to serious bodily injury or death.

❗ IMPORTANT

This mark indicates instructions which must be followed, or it leads to mechanical failure, breakdown, or damage.

NOTE

This mark indicates hints or directions useful in the use of the product.

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1. Warning labels on the machine

(1) (2) (3) (4) (5) (6) (7)

(1) Read owner's manual before operating this machine.
(2) Wear head, eye and ear protection.
(3) Wear foot protection.
(4) Wear gloves.
(5) Beware of thrown objects.
(6) Warning / Attention
(7) Keep all children, bystanders and helpers 15 meters away from the machine.

❗ IMPORTANT

If warning label peels off or becomes soiled and impossible to read, you should contact the dealer from which you purchased the product to order new labels and affix them in the required location(s).

⚠ WARNING

Never modify your machine.
We won't warrant the machine, if you use the remodeled brushcutter or if you don't observe the proper usage written in the manual.

2. Symbols on the machine

(a)

(b)

(c)

For safe operation and maintenance, symbols are carved in relief on the machine. According to these indications, please be careful not to take a mistake.

(a) The port to refuel the "MIX GASOLINE"
Position: FUEL TANK CAP

(b) The direction to close the choke
Position: AIR CLEANER COVER

(c) The direction to open the choke
Position: AIR CLEANER COVER

3. Specifications

MODEL CODE	Unit	BC4350DW
Overall size		
Length	mm	1835
Width	mm	620
Height	mm	505
Dry weight	Kg	7.55
Engine model	✻	G45L-D
Displacement	cc	41.5
Carburetor	✻	Diaphragm
Fuel (Mixture ratio)	✻	50:1 (Gasoline and 2cycle oil)
Fuel tank capacity	litter	0.94
Service range	rpm	5000~8000
Spark plug	✻	NGK BPMR7A
Clutch system	✻	Two-shoe Centrifugal-Type
Anti-vibration system		
Housing	✻	Yes
Handle-bracket	✻	No
Gearhead		
Neck angle	deg	60
Reduction ratio	✻	1.400
Blade rotation	✻	Counter-clockwise
Handle type	✻	Double
Throttle lever	✻	Trigger Type (With Safety-lock)
Standard cutter	✻	Nylon string head
Harness type	✻	Double
Quick release	✻	Yes
Standard accessories		
Tool-kit	✻	●
Owner's manual	✻	●

Specifications are subject to change without notice.

⚠ 4. Safety precautions

1. Read this manual carefully until you completely understand and follow all safety and operating instructions.
2. Keep this manual handy so that you may refer to it later whenever any questions arise. Also note, if you have any questions which cannot be answered herein, contact the dealer from whom you purchased the product.
3. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of this product.
4. Never allow children or anyone unable to fully understand the directions given in the manual to use the machine.

■ WORKING CONDITION

1. When using the product, you should wear proper clothing and protective equipment.

(1) Helmet
(2) Ear protectors
(3) Protection goggles or face protector
(4) Thick work gloves
(5) Non-slip-sole work boots

2. And you should carry with you.
(1) Attached tools
(2) Properly reserved fuel
(3) Spare blade
(4) Things to notify your working area (rope, warning signs)
(5) Whistle (for collaboration or emergency)
(6) Hatchet or saw (for removal of obstacles)

3. Do not wear loose clothing, jewelry, short trousers, sandals, or go barefoot. Do not wear anything which might be caught by a moving part of the unit. Secure hair so it is above shoulder length.

■ WORKING CIRCUMSTANCE

1. Never start the engine inside a closed room or building. Exhaust gases contain dangerous carbon monoxide.

2. Never use the product,
(1) When the ground is slippery or when you can't maintain a steady posture.
(2) At night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the working area.
(3) During rain storms, during lightning storms, at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use the product.

■ WORKING PLAN

1. You should never use the product when under the influence of alcohol, when suffering from exhaustion or lack of sleep, when suffering from drowsiness as a result of having taken cold medicine or at any other time when a possibility exists that your judgment might be impaired or that you might not be able to operate the product properly and in a safe manner.
2. When planning your work schedule, allow plenty of time to rest. Limit the amount of time over which the product is to be used continuously to somewhere around 30 ~ 40 minutes per session, and take 10 ~ 20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day under 2 hours or less.

⚠ WARNING

1. If you don't observe the working time, or working manner **(See "USING THE PRODUCT")**, Repetitive Stress Injury (RSI) could occur.
If you feel discomfort, redness and swelling of your fingers or any other part of your body, see a doctor before getting worse.
2. To avoid noise complaints, in general, operate product between 8 a.m. and 5 p.m. on weekdays and 9 a.m. to 5 p.m. on weekends.

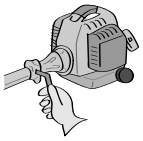
NOTE

Check and follow the local regulations as

to sound level and hours of operations for the product.

■ BEFORE STARTING THE ENGINE

1. The area within a perimeter of 15 m of the person using the product should be considered a hazardous area into which no one should enter. If necessary, yellow warning rope, warning signs should be placed around the perimeter of the area. When work is to be performed simultaneously by two or more persons, care should also be taken to constantly look around or otherwise check for the presence and locations of other people working so as to maintain a distance between each person sufficient to ensure safety.
2. Check the condition of working area to avoid any accident by hitting hidden obstacles such as stumps, stones, cans, or broken glass.



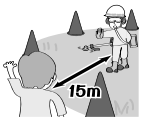
❗ IMPORTANT

Remove any obstacle before beginning work.

3. Inspect the entire unit for loose fasteners and fuel leakage. Make sure that the cutting attachment is properly installed and securely fastened.

4. Be sure the cutting attachment guard is firmly attached in place.
5. Always use the harness. Adjust the harness for comfort before starting the engine. The harness should be adjusted so the left hand can comfortably hold the handlebar grip approximately waist high.

■ STARTING THE ENGINE



1. Keep bystanders and animals at least 15 m away from the operating point. If you are approached, immediately stop the engine.
2. The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to rotate as soon as the engine is started by putting the throttle trigger into the start position. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place

so as to ensure that neither the cutting part nor the throttle trigger come into contact with any obstacle when the engine starts.

⚠ WARNING

Never place the throttle trigger into the high-speed position when starting the engine.

3. After starting the engine, check to make sure that the cutting attachment stops rotating when the throttle is moved fully back to its original position. If it continues to rotate even after the throttle trigger has been moved fully back, turn off the engine and take the unit to your authorized ZENOAH servicing dealer for repair.

■ USING THE PRODUCT

❗ IMPORTANT

Cut only materials recommended by the manufacturer. And use only for tasks explained in the manual.

1. Grip the handles firmly with both hands using your whole hand. Place your feet slightly apart (slightly further apart than the width of your shoulders) so that your weight is distributed evenly across both legs, and always be sure to maintain a steady, even posture while working.
2. Keep cutting attachment below waist level.
3. Maintain the speed of the engine at the level required to perform cutting work, and never raise the speed of the engine above the level necessary.

4. If the unit starts to shake or vibrate, turn off the engine and check the whole unit. Do not use it until the trouble has been properly corrected.

5. Keep all parts of your body away from rotating cutting attachment and hot surfaces.

6. Never touch the muffler, spark plug, or other metallic parts of the engine while the engine is in operation or immediately after shutting down the engine. Doing so could result in

serious burns or electrical shock.

■ **IF SOMEONE COMES**

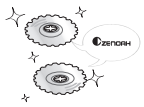
1. Guard against hazardous situations at all times. Warn adults to keep pets and children away from the area. Be careful if you are approached. Injury may result from flying debris.
2. If someone calls out or otherwise interrupts you while working, always be sure to turn off the engine before turning around.

■ **MAINTENANCE**

1. In order to maintain your product in proper working order, perform the maintenance and checking operations described in the manual at regular intervals.
2. Always be sure to turn off the engine and disconnect the spark plug wire before performing any maintenance or checking procedures.

⚠ WARNING

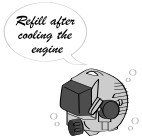
The metallic parts reach high temperatures immediately after stopping the engine.



3. When replacing the cutting attachment or any other part, or when replacing the oil or any lubricant, always be sure to **use only ZENOAH products or products which have been certified by ZENOAH for use with the ZENOAH product.**
4. In the event that any part must be replaced or any maintenance or repair work not described in this manual must be performed, please contact a representative from the store nearest ZENOAH authorized servicing dealer for assistance.
5. Do not use any accessory or attachment other than those bearing the ZENOAH mark and recommended for the unit.
6. Under no circumstances should you ever take apart the product or alter it in any way. Doing so might result in the product becoming damaged during operation or the product becoming unable to operate properly.

■ **HANDLING FUEL**

1. The engine of the ZENOAH product is designed to run on a mixed fuel, which contains highly flammable gasoline. Never store cans of fuel or refill the tank of the unit in any place where there is a boiler, stove, wood fire, electrical sparks, welding sparks, or any other source of heat or fire which might ignite the fuel.
2. Never smoke while operating the unit or refilling its fuel tank.



3. When refilling the tank, always turn off the engine and allow it to cool down. Take a careful look around to make sure that there are no sparks or open flames anywhere nearby before refueling.
4. Wipe spilled fuel completely using a dry rag if any fuel spillage occurs during refueling.
5. After refueling, screw the fuel cap back tightly onto the fuel tank and then carry the unit to a spot 3 m or more away from where it was refueled before turning on the engine.

■ **TRANSPORTATION**

1. When hand-carrying the product, cover over the cutting part if necessary, lift up the product and carry it paying attention to the blade.
2. Never transport the product over rough roads over long distances by vehicle without removing all fuel from the fuel tank. If doing so, fuel might leak from the tank during transport.

⚠ WARNING

■ **CONTROLLING BLADE THRUST**

Blade thrust can cause serious personal injury. Carefully study this section. It is important that you understand what causes blade thrust, how you can reduce the chance of blade thrust and how you can remain in control of the unit if blade thrust does occur.

1. What causes blade thrust:

Blade thrust can occur when the moving blade contacts an object that it cannot cut.

This contact causes the blade to stop for an instant and then suddenly move or ”bounce” away from the object that was hit. The operator can lose control of the unit and the blade can cause serious personal injury to the operator or any person nearby if the blade contacts any part of the body.

2. How you can reduce the chance of blade thrust:

(1) Recognize that blade thrust can happen. By understanding and knowing about bounce, you can help eliminate the element of surprise.
(2) Cut fibrous weeds and grass only. Do not let the blade contact materials it cannot cut such as hard, woody vines and brush or rocks, fences, metal, etc
(3) Be extra prepared for blade thrust if you must cut where you cannot see the blade making contact such as in areas of dense growth.
(4) Keep the blade sharp. A dull blade increase the chance of blade thrust.
(5) Avoid feeding the blade too rapidly. The blade can bounce away from material being cut if the blade is fed faster than its cutting capability.
(6) Cut only from your right to your left.
(7) Keep your path of advance clear of material that has been cut and other debris.

3. How you can maintain the best control:

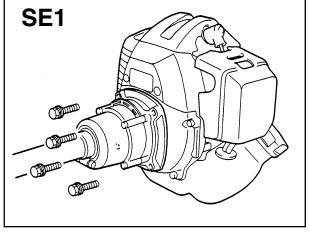
(1) Keep a good, firm grip on the unit with both hands. A firm grip can help neutralize bounce. Keep your right and left hands completely around the respective handles.
(2) Keep both feet spread apart in a comfortable stance and yet braced for the possibility that the unit could bounce. Do not overreach. Keep firm footing and balance.

5. Set up

■ ENGINE

- Using attached 4 bolts, secure the connection firmly with equal force.

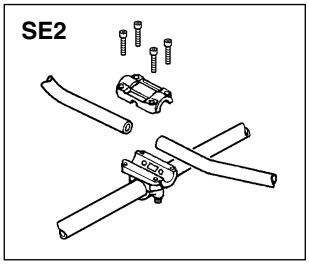
SE1



■ HANDLE

1. Loosen the 4 bolts on the upper cap and insert the handles equally. Retighten the bolts.
2. Put the handle assembly into the bracket and put the upper cap over it. Tighten the cap securely.

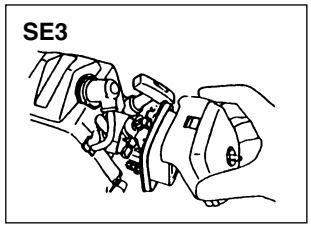
SE2



■ CONNECTING THROTTLE WIRE

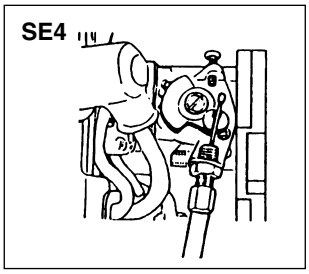
1. Remove the air cleaner cover.

SE3



2. Connect the end of the throttle wire to the joint on the top of the carburetor.

SE4



NOTE

When installing the cleaner cover, make sure to put the high-tension wire in it.

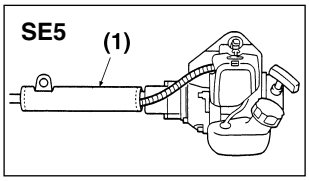
■ CONNECTING SWITCH WIRES

Connect the switch wires between the engine and the main unit. Pair the wires of the same color.

■ PROTECTOR

Wrap the protector around the outer pipe as shown in the figure, and fasten the magic fastener.

SE5

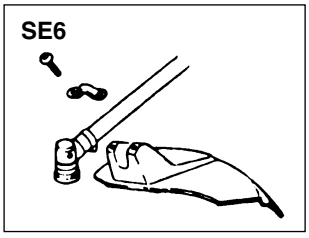


(1) Protector

■ BLADE GUARD

Attach the guard on the outer pipe. Fix it with 2 bolts.

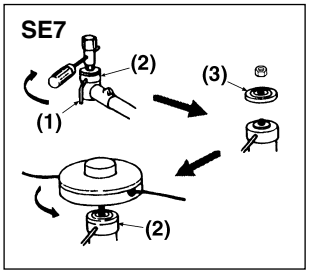
SE6



■ INSTALLING CUTTING HEAD

1. While locking the gear shaft by inserting the attached bar into the inner holder and the gear box, loosen and remove the hexagon nut (left-handed) and outer holder.
2. Screw in the cutting head to the gear shaft over the inner holder. Handtighten the cutting head.

SE7



(1) Bar
(2) Inner holder
(3) Outer holder

■ BALANCE UNIT

1. Put on strap and attach unit to strap.
2. Slide clamp up or down until unit balances with head aparting from the ground when using it.

SE8

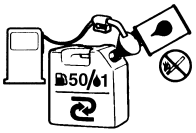
6. Fuel

■ **Fuel**

⚠ WARNING

- **Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool before refueling the unit. Select outdoor bare ground for fueling and move at least 3 m (10 ft) away from the fueling point before starting the engine.**

- The Zenoah engines are lubricated by oil specially formulated for air-cooled 2-stroke gasoline engine use. If Zenoah oil is not available, use an anti-oxidant added quality oil expressly labeled for air-cooled 2-stroke engine use (JASO FD GRADE OIL or ISO-L-EGD GRADE).
- Do not use BIA or TCW (2-stroke water-cooling type) mixed oil.



■ **RECOMMENDED MIXING RATIO**
GASOLINE 25 : OIL 1
When using market oil (JASO FB grade oil or ISO-L-EGB grade oil)
GASOLINE 50 : OIL 1
when using ZENOAH genuine oil, JASO FD grade oil or ISO-L-EGD grade oil

- **Exhaust emission are controlled by the fundamental engine parameters and components (eq., carburation, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.**
- These engines are certified to operate on unleaded gasoline.
- Make sure to use gasoline with a minimum octane number of 89RON (USA/Canada: 87AL).
- If you use a gasoline of a lower octane value than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur.
- Unleaded gasoline is recommended to reduce the contamination of the air for the sake of your health and the environment.
- Poor quality gasolines or oils may damage sealing rings, fuel lines or fuel tank of the engine.

■ **HOW TO MIX FUEL**

⚠ WARNING

- **Pay attention to agitation.**

1. Measure out the quantities of gasoline and oil to be mixed.
2. Put some of the gasoline into a clean, approved fuel container.
3. Pour in all of the oil and agitate well.
4. Pour in the rest of gasoline and agitate again for at least one minute. As some oils may be difficult to agitate depending on oil ingredients, sufficient agitation is necessary for the engine to last long. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.
5. Put a clear indication on the outside of the container to avoid mixing up with gasoline or other containers.
6. Indicate the contents on outside of container for easy identification.

■ **FUELING THE UNIT**

1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
2. Put fuel into the fuel tank to 80% of the full capacity.
3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

⚠ WARNING

1. **Select flat and bare ground for fueling.**
2. **Move at least 10 feet (3 meters) away from the fueling point before starting the engine.**
3. **Stop the engine before refueling the unit. At that time, be sure to sufficiently agitate the mixed gasoline in the container.**

■ **FOR YOUR ENGINE LIFE, AVOID:**

1. FUEL WITH NO OIL (RAW GASOLINE) – It will cause severe damage to the internal engine parts very quickly.
2. GASOHOL – It can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
3. OIL FOR 4-CYCLE ENGINE USE – It can cause spark plug fouling, exhaust port blocking, or piston ring sticking.
4. **Mixed fuels which have been left unused for a period of one month or more** may clog the carburetor and result in the engine failing to operate properly.
5. In the case of storing the product for a long period of time, clean the fuel tank after rendering it empty. Next, activate the engine and empty the carburetor of the composite fuel.
6. In the case of scrapping the used mixed oil container, scrap it only at an authorized repository site.

NOTE

- As for details of quality assurance, read the description in the section Limited Warranty carefully. Moreover, normal wear and change in product with no functional influence are not covered by the warranty. Also, be careful that, if the usage in the instruction manual is not observed as to the mixed gasoline, etc. described therein, it may not be covered by the warranty.

7. Operation

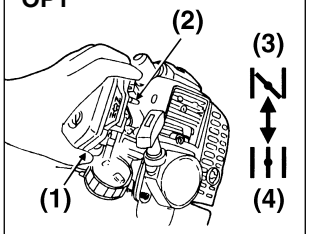
■ STARTING ENGINE

⚠ WARNING

The cutting head will start rotating upon the engine starts.

1. Push the primer pump several times until overflown fuel flows out in the clear tube.
2. Move the choke lever to the closed position.

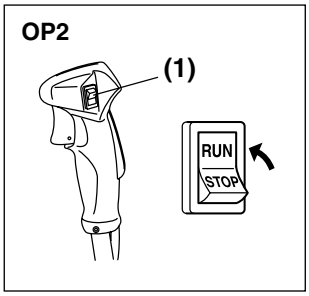
OP1



(1) Primer pump
(2) Choke lever
(3) Close
(4) Open

3. Set the stop switch to the “RUN” position.
   Place the unit on a flat, firm place.
   Keep the cutting head clear of everything around it.

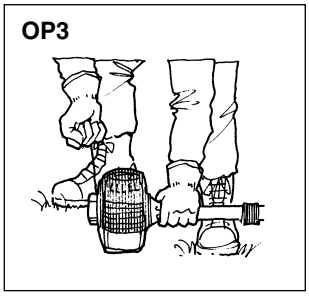
OP2



(1) Stop switch

4. While holding the unit firmly, pull out the starter rope quickly until engine fires.

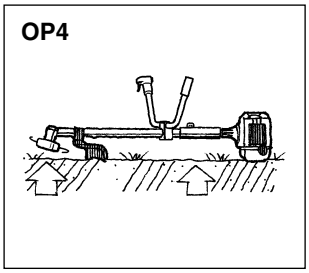
OP3



⚠ WARNING

The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to rotate as soon as the engine is started by putting the throttle into the start position. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place so as to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.

OP4



❗ IMPORTANT

Avoid pulling the rope to its end or returning it by releasing the knob. Such actions can cause starter failures.

5. Move the choke lever downward to open the choke. And restart engine.
6. Allow the engine to warm up for a several minutes before starting operation.

📖 NOTE

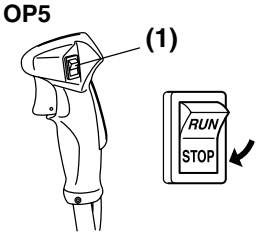
1. When restarting the engine immediately after stopping it, leave the choke open.
2. Overchoking can make the engine hard to start due to excess fuel. When the engine failed to start after several attempts, open the choke and repeat pulling the rope, or remove the spark plug and dry it.

7. Operation

■ STOPPING ENGINE

1. Release the throttle trigger and run the engine for half a minute.
2. Shift the stop switch to the STOP position.

OP5



(1) Stop switch

! IMPORTANT

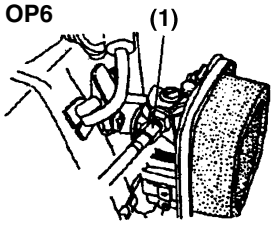
Except for an emergency, avoid stopping the engine while pulling the throttle lever.

■ADJUSTMENTS

Throttle cable:

The normal play is 1 or 2 mm when measured at the carburetor side end. Readjust with the cable adjuster as re-quired.

OP6

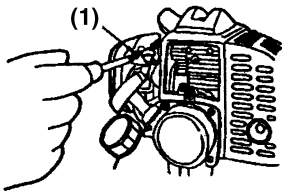


(1) Cable adjuster

Engine idling speed:

It is normal that the engine keeps running without the blade rotation, when the throttle lever is released. When the engine speed is too high or too slow, readjust the idle set screw.

OP7



(1) Idle set screw

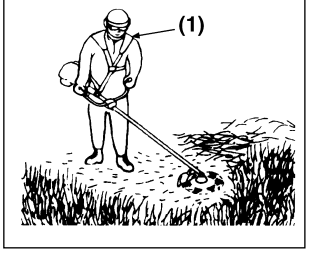
NOTE

Warm up the engine before adjusting the idling speed.

■ CUTTING WORK

- By using the shoulder strap, hang the unit on your right side. Adjust the strap length so that the cutting head may become parallel to the ground.

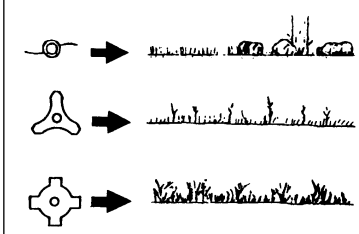
OP8



(1) Shoulder strap

- Choose a suitable recommended cutting attachment according to the object to be cut. Never use other cutting attachment not approved by ZENOAH.

OP9



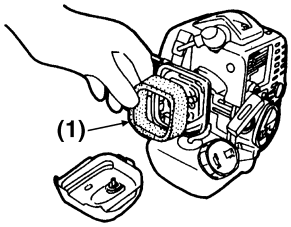
⚠ WARNING

Make sure that the engine has stopped and is cool before performing any service to the machine. Contact with moving cutting head or hot muffler may result in a personal injury.

■ AIR FILTER

The air filter, if clogged, will reduce the engine performance. Check and clean the filter element in warm, soapy water as required. Dry completely before installing. If the element is broken or shrunk, replace with a new one.

MA1

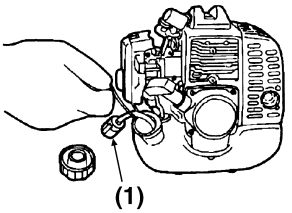


(1) Air filter

■ FUEL FILTER

When the engine runs short of fuel supply, check the fuel strainer for blockage.

MA2

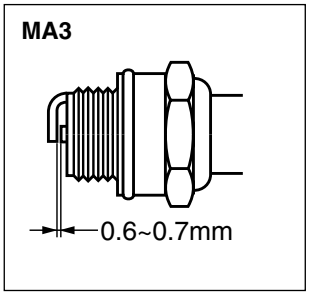


(1) Fuel strainer

■ SPARK PLUG

Starting failure and misfiring are often caused by a fouled spark plug. Clean the spark plug and check that the plug gap is in the correct range. For a replacement plug, use the correct type specified by ZENOAH.

MA3

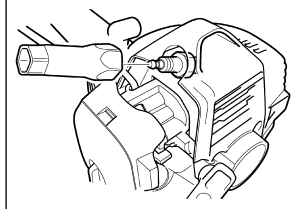


REPLACEMENT PLUG IS A NGK BPMR7A.

❗ IMPORTANT

- Note that using any spark plug other than those designated may result in the engine failing to operate properly or in the engine becoming overheated and damaged.
- To install the spark plug, first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench.

MA4

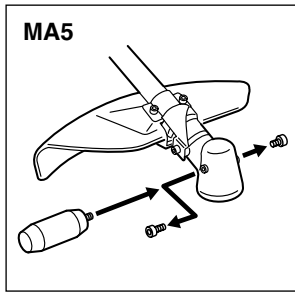


Tightning torque: 9.8~11.8N.m. (1.0~1.2kgm)

■ GEAR CASE

- The reduction gears are lubricated by multipurpose, lithium-based grease in the gear case. Supply new grease every 25 hours of use or more often depending on the job condition.
- Remove the bolt opposit to the grease nipple before installing new grease to arrange for old grease to exit.

MA5



■ INTAKE AIR COOLING VENT

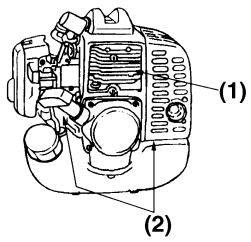
⚠ WARNING

- **Never touch the cylinder, muffler, or spark plugs with your bare hands immediately after stopping the engine. The engine can become very hot when in operation, and doing so could result in severe burns.**
- **When checking the machine to make sure that it is okay before using it, check the area around the muffler and remove any wood chips or leaves which have attached themselves to the brushcutter. Failing to do so could cause the muffler to become overheated and that in turn could cause the engine to catch on fire. Always make sure that the muffler is clean and free of wood chips, leaves, and other waste before use.**
- **Check the intake air cooling vent and the area around the cylinder cooling fins after every 25 hours of use for blockage, and remove any waste which has attached itself to the brushcutter. Note that it is necessary to remove the engine cover shown in in order to be able to view the upper part of the cylinder.**

❗ IMPORTANT

If waste gets stuck and causes blockage around the intake air cooling vent or between the cylinder fins, it may cause the engine to overheat, and that in turn may cause mechanical failure on the part of the brushcutter.

MA6



(1) Cylinder
(2) Intake air cooling vent

■ MUFFLER

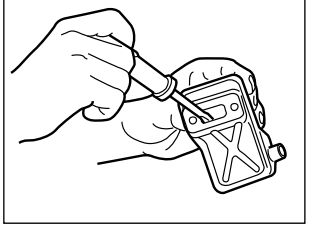
⚠ WARNING

- **Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, stop using the machine and have it repaired immediately.**
- **Note that failing to do so may result in the engine catching on fire.**

■ PROCEDURES TO BE PERFORMED AFTER EVERY 100 HOURS OF USE

1. Remove the muffler, insert a screwdriver into the vent, and wipe away any carbon buildup. Wipe away any carbon buildup on the muffler exhaust vent and cylinder exhaust port at the same time.

MA7



2. Tighten all screws, bolts, and fittings.
3. Check to see if any oil or grease has worked its way in between the clutch lining and drum, and if it has, wipe it away using oil-free, lead-free gasoline.

■ MAINTENANCE BEFORE STORAGE

- Old fuel left in the carburetor may cause starting failure. When a series of operation finished, make sure to empty the fuel tank and drain the carburetor.
- Check all parts and the functions. If the failured or damaged parts have been found, replace them with new ones.

9. Trouble shooting

PHENOMENON	MAIN CAUSE	MEASURES
The engine does not start.	• Bad fuel (different quality, deterioration)	• Replace it with normal fuel (page 9).
	• Excessive sucking of fuel	• Open the choke, open the throttle full open, and pull out the rope repeatedly (page 10).
	• Clogging of the muffler exhaust vent	• Clean the muffler (page 13).
	• Contamination of the spark plug electrodes, Short-circuit or breaking of a wire	• Clean the electrodes or replace the plug (page 12☆).
The engine does not accelerate.	• Bad fuel (different quality, deterioration)	• Replace it with normal fuel (page 9).
	• Clogging of the muffler exhaust vent	• Clean the muffler (page 13).
The engine stalls when the throttle is returned to its original position.	• The idling revolution speed is too low.	• Readjust the idling adjustment screw (page 11).
The engine rotation speed changes.	• Clogging of the fuel filter	• Clean or replace the fuel filter (page 12☆).
Deterioration of fuel consumption	• Clogging of the air cleaner	• Clean the air cleaner (page 12).
	• Bad lubrication of the gear case	• Supply grease (page 12).

• When the symptoms in the left column do not improve after taking the measures in the right column, please contact the shop where you bought this product.
• For the measures marked with ☆, please buy ZENOAH's genuine parts at the shop where you bought this product.

⚠ WARNING

- **Do not modify or disassemble the machine. Modification or disassembly of the machine might cause the machine to be damaged during operation, or cause an unexpected accident due to the leakage of fuel or malfunction of the machine.**
- **When you carry out inspection or maintenance of the machine, keep the machine clear of fire (such as a lit cigarette). Otherwise, the fuel might catch fire.**
- **Use ZENOAH's genuine or dedicated tightening parts (bolts, nuts and screws). Use of other manufacturers' parts might damage the machine, or cause an unexpected accident due to parts falling off while the machine is in operation.**

10. Disposal

- When you dispose of the machine, do not disassemble the machine.
- When you dispose of the machine, fuel, oil, be sure to follow your local regulations.

Limited warranty

Should any failure occur on the product under normal operating conditions within the applicable warranty period, the failed part will be replaced or repaired free of charge by a ZENOAH authorized dealer.

WARRANTY PERIOD: Six (6) months after purchased by end-user subject to 12 months from produced month. (30 days if used for rental purpose)

THE PURCHASER SHALL BEAR COSTS OF TRANSPORTING THE UNIT TO AND FROM THE ZENOAH DEALER.

THE PURCHASER SHALL NOT BE CHARGED FOR DIAGNOSTIC LABOR WHICH LEADS TO THE DETERMINATION THAT A WARRANTED PART IS DEFECTIVE, IF THE DIAGNOSTIC WORK IS PERFORMED AT THE ZENOAH DEALER.

THE PURCHASER OR OWNER IS RESPONSIBLE FOR THE PERFORMANCE OF THE REQUIRED MAINTENANCE AS DEFINED BY THE MANUFACTURER IN THE OWNER/OPERATOR MANUAL.

ANY WARRANTED PART WHICH IS NOT SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE, OR WHICH IS SCHEDULED ONLY FOR REGULAR INSPECTION TO THE EFFECT OF REPAIR OR “REPLACE AS NECESSARY” SHALL BE WARRANTED FOR THE WARRANTY PERIOD. ANY WARRANTED PART WHICH IS SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE SHALL BE WARRANTED FOR THE PERIOD OF TIME UP TO THE FIRST SCHEDULED REPLACEMENT POINT FOR THE PART.

ANY REPLACEMENT PART THAT IS EQUIVALENT IN PERFORMANCE AND DURABILITY MAY BE USED IN NON-WARRANTY MAINTENANCE OR REPAIRS, AND SHALL NOT REDUCE THE WARRANTY OBLIGATION OF THE COMPANY.

THE COMPANY IS LIABLE FOR DAMAGES TO OTHER ENGINE COMPONENTS CAUSED BY THE FAILURE OF A WARRANTED PART STILL UNDER WARRANTY.

THE WARRANTY DOES NOT APPLY TO THOSE UNITS WHICH HAVE BEEN DAMAGED BY NEGLIGENCE OF INSTRUCTION LISTED IN THE OWNER/OPERATOR MANUAL FOR PROPER USE AND MAINTENANCE OF THE UNITS ACCIDENT MISHANDLING, ALTERATION, ABUSE, IMPROPER LUBRICATION, USE OF ANY PARTS OR ACCESSORIES OTHER THAN THOSE SPECIFIED BY THE COMPANY, OR OTHER CAUSES BEYOND THE COMPANY'S CONTROL.

THIS WARRANTY DOES NOT COVER THOSE PARTS REPLACED BY NORMAL WEAR OR HARMLESS CHANGES IN THEIR APPEARANCE.

THERE ARE NO OTHER EXPRESS WARRANTIES.

ANY IMPLIED WARRANTY is limited to the duration of the limited warranty. Otherwise, this limited warranty is in lieu of all other expressed or implied warranties, including any warranty of **FITNESS FOR A PARTICULAR PURPOSE OR USE** and any implied warranty **MERCHANTABILITY** otherwise applicable to this product.

LIABILITIES FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE UNDER ANY AND ALL WARRANTIES ARE EXCLUDED.

IF YOU NEED TO OBTAIN MORE INFORMATION, PLEASE CALL YOUR NEAREST SERVICE CENTER, OR CHECK PLEASE ZENOAH WEB SITE:
http://www.zenoah.net

To Dealer: Please complete the following form at time of sale.

Product Model: **ZENOAH** ☐ **BC4350DW**	Equipment No.:	
	Engine No.:	
Date of Purchase: D / M / Y	Use:	☐ Private
		☐ Professional
		☐ Rental
Purchaser:	Name:	
	Address/Phone:	
Dealer:	Name:	
	Address/Phone:	

To Purchaser: When your unit requires any repair, please bring or send it to the dealer with this sheet attached.

ZENOAH®

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